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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-16-235 Relating to Certification of New Motor Vehicles

MAZDA MOTOR CORPORATION

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1999 model-year Mazda Motor Corporation exhaust emission control systems are certified as described below for passenger cars:

Emission Standard Category: Transitional Low-Emission Vehicle (TLEV)

Fuel Type: Gasoline

Engine Family: XTKXV02.0VDM Displacement: 2.0 Liters (122 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Warm Up Three Way Catalytic Converter Three Way Catalytic Converter Heated Oxygen Sensors (two) Exhaust Gas Recirculation Sequential Multiport Fuel Injection

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The TLEV certification exhaust emission standards for this engine family in grams per mile are:

Miles	Non-Methane Organic Gases	Carbon <u>Monoxide</u>	Oxides of <u>Nitrogen</u>	<u>Formaldehyde</u>	Carbon Monoxide (20°F)
50,000	0.125	3.4	0.4	0.015	10.0
100,000	0.156	4.2	0.6	0.018	n/a

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.98

The certification exhaust emission values set forth for non-methane organic gases (NMOG) reflect application of a 0.98 RAF for 1999 model-year TLEVs. The TLEV certification exhaust emission values for this engine family in grams per mile are:

<u>Miles</u>	Non-Methane Organic Gases	Carbon <u>Monoxide</u>	Oxides of Nitrogen	<u>Formaldehyde</u>	Carbon Monoxide (20°F)
50,000	0.074	1.0	0.1	0.0004	6.6
100,000		1.1	0.1	0.0004	n/a

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average NMOG exhaust mass emission requirements as set forth in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the running loss and useful life standards applicable to 1995 and subsequent model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles," and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the "California Refueling Emission Standards and Test Procedures for 1998 and Subsequent Model Motor Vehicles," Title 13, California Code of Regulations, Section 1978, and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control and Smog Index Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the vehicle manufacturer has demonstrated compliance with the exhaust emission standards at 50 degrees Fahrenheit as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 25 day of June 1998.

R. B. Summerfield, Chief

Mobile Source Operations Division

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1999	AIR RESOURCES	BOARD	SUPPLEMENTAL	DATA	SHEET

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E.O.#	Page	_

Manufacturer	Mazda Mot	or Co rpora t	ion_	Exh	Eng Fa	m: XTKXV02.	0VDM	Evap Far	n: XTKXR	.0125BFA	
All Engine Codes in	Engine Fa	milv:	CA	X 49	S	50S	AB965	, OHVF	1: 1E3_	<u> </u>	
Exh Std: CA	Tier-1	TLE	v x	LE		ULEV	SUL	.EV,	US EP	A Tier-1	
Vah Class (as) · ·	PC X	LDT1		LDT2		MDV1	MDV2	MDV3	NDV	/4 MD)V5
Cinala Cost Std for I	Multi-Class	Fng Fam	•	N/A	(s	pecify : N/A, LE	T1, MDV1,	MDV2, MUV	3, NIDV4)		
Fuel Type (s):	Dedi	cated X	F	Flex-Fuel		Duel-Fuel	Bi-Fuel	G	ISOIITIE A	Diesei	
	CNG		LNG		LPG	M85_		Other (spec	пу)		
Exh Emiss Test Fu	el (s) :	Indo	-	CBG ×	CNG	LPG_	M85	0	ther (specif	y)	
		Diesel: 1	3 CCI	R 2282		40CFR 86	.113-90		40 CFR 86	5.113-94	
Evaporative Emissi	on Test Pr	ncedure :		California	Х	Federa	ıl				
Service Accum :	Std. AN	IA X	٨	AMA bol		Mfr ADP		Other (spec	ify)		
NMOG Test Proces						Equiv	R/L Test	Proc: SH	ED	PT Source	X
Engine Configuration						0 /	Liters	121.5 /	(Cubic Inche	S
-			J. Op.			Rated HP :				000	RPM
Valves per Cylinder Engine : Front	-			Rear				WD 4\		4WD-PT	
Exhaust ECS (e.g.,						H025(2)	WU-TWC	/TWC/EGR/SF	1	···	
Exhaust ECS (e.g.,	I MIT II COL	, 10,020	, .		· <u></u>		reviations p	er SAE J1930	MAY91)		

	Mahiala Madala	Trans. Type	ETW	DPA	Ignition	EGR	Catalyst
Engine Code	Vehicle Models	* * *		or	(ECM/PCM)	System	Part No.
(also list CA/	(if coded see	(M5, A4	or		1 '	Part No.	
49ST/50ST)	attachment)	etc.)	Test Wt.	RLHP	Part No.		FSD9
DFSD2AA8	626	M5	3125	6.4 *1	Distrubutor:	EGR Control	i
D1 0D27 11 10		,		6.5 *2	N.A.	Valve:	B6GD
DECDO (4 W		1		7.0 *1	lecu:	FP34	
DFSD2AAW		1		7.2 *2	FSJ8, FSD9		
			20.50		Distrubutor:	1	
DFSDTAA8		A4	3250	6.4 *1	-4		
]		1	6.5 *2	N.A.		
DFSDTAAW	1	i	j	7.0 *1	ECU:	1	ł
ייאחושפוש				7.2 *2	FSJ9, FSE1	l	
	<u> </u>		<u> </u>				
HC (g/mi)	<u></u>	. /				Ľ	
NMOG (g/mi)	<u>o.</u>	125 / 0.156					
Non-methane H	C (g/ml)						1
CO (g/ml)	3.4						1
NOx (g/mi)	0.		/			1	
HWFET NOx (9			- /				
Evap. (EPA : g/			/	 		1	Ì
Evep. (ARB : 9/							
Evep. (Abbrev :			/		İ		
Running Loss (/		1		
Spit Back (g/tes ORVR (g/gallon			/		1		
Cold CO (g/mi)	•	,0 /	/			1	
Idle CO for LDT			/		1		
HCHO (mg/mi)	1:	/ 18	/				}
CST -HC		. /	/				
CST -CO		. /			[
NMOG (g/ml) 10	or 50°F <u>0.</u>	25 /		 			
HCHO (mg/ml)		, ,	/		<u> </u>	<u> </u>	<u> </u>

Revisions:

*1: 185 Tire, *2: 205 Tire

Issue Date	: May 15, 1998		T	
Rev. No.		 		
Date		 		